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1. General

HVD85-40.5 (ZN85-40.5) is suitable for three-phase AC power system of 50Hz and 40.5kV, used to make and break the load current, overload current and fault current in industrial and mining enterprises, power plants and transformer substations, meanwhile, it is suitable for the occasion where the frequent operation is required.

2. Service conditions

2.1 The ambient air temperature should be $-15^{\circ}\text{C}\sim 40^{\circ}\text{C}$, the daily average temperature should not exceed 35°C .

2.2 Daily mean relative humidity should not exceed 95%, and the daily mean vapor pressure should not exceed 2.2kPa; the monthly mean relative humidity should not be higher than 90%, and the monthly mean vapor pressure should not exceed 1.8kPa.

2.3 Altitude: Not exceed 1,000m.

2.4 The ambient air should be free from the dust, smoke, corrosive and flammable gas, steam, salt fog, et...

Main specifications and technical parameters

Item	Unit	Parameter
Rated voltage	kV	40.5
Rate voltage	kV	95
Lighting impulse withstand voltage	kV	185
Rated frequency	Hz	50
Rated current	A	1250、1600、2000
Rated short-time withstand current	kA	25、31.5
Rated peak value withstand current	kA	63、80
Rated short-circuit duration	s	4
Rated short-circuit breaking current	kA	25、31.5
Rated short-circuit making current	kA	63、80
Rated operation sequence		O-0.3s-CO-180s-CO
Breaking time	ms	<80
Rated short-circuit current breaking times	times	20
Single capacitor bank breaking current	A	630
Back-to-Back capacitor bank breaking current	A	400
Rated control voltage	V	AC110、220; DC110、220
Mechanical life	times	10000

Overall and installation dimensions

1. Opening spring
2. Main shaft
3. Regulating lever of intermediate phase
4. Driving rod
5. Driving board 2
6. Contac spring
7. Driving board 3
8. Driving board 4
9. Driving board 1
10. Regulating lever of side phase
11. Rod end bearing